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ABSTRACT

Use of HIV-1 gp120 and gp160 proteins which have been modified in the V3 loop for preparing vaccine compositions and formulations containing them which induce a systemic and mucosal immunity.

Use of a recombinant HIV-1 Env protein, in which the V3 loop is partially or completely deleted, for preparing a vaccine composition which is capable of inducing an immunity which is at the same time humoral, cellular and mucosal with respect to HIV-1.

The vaccine composition comprises:

- a recombinant Env protein as defined above,
- optionally at least one compound selected from the group consisting of: (1) the vaccination adjuvants selected from the group consisting of derivatives comprising divalent or trivalent ions: aluminium hydroxide or calcium phosphate, and muramylpeptide derivatives and (2) liposomes and
- optionally at least one pharmaceutically acceptable vehicle.

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